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March 9, 1986

MEMBER OF NY BAR-MEMBER OF FLA. BAR--MEMBER OF D.C. BAR---MEMBER OF CAL. BAR---MEMBER OF COLO. BAR-

Mr. Joseph Mikulka Chief
Department of Environmental Protection
Division of Water Resources
1259 Route 46 East
Parsippany-Troy Hills, NJ 07054

RE: L.E. Carpenter and Company Administrative Consent Order

Dear Mr. Mikulka:

Enclosed please find a copy of the summary for the on-site activities during the month of February, 1986. The same is being filed in accordance with the above Administrative Consent Order.

Should you have any questions, please feel free to contact me at your earliest convenience.

Very truly yours,

THEODORE A. SCHWARTZ

TAS/mjp Enclosure

cc: Mr. Robert G. Kunzel w/o enc.

Mr. Frank Aron w/o enc.

GeoEngineering, Inc.

Consultants in Groundwater Control

March 4, 1986

100 Ford Rd. Denville, N.J. 07834 (201) 625 0700

L. E. Carpenter and Company 170 North Main Street Wharton, NJ 07885

ATTN: Mr. Frank Aron

SUBJ: Monthly Progress Report

Groundwater Decontamination Program

Gentlemen:

This report summarized on-site activities during the month of February 1986.

The AUTO-SKIMMER was located at Well No. 10 for the entire month. A total of 27.4 gallons were recovered from Well No. 10. The total recovered since operations began is 2861.20 gallons.

Due to mechanical problems the AUTO-SKIMMER was out of service for the period February 18 to March 1, 1986

The attached Figures 1 and 2 show the piezometric water level contours and calculated thickness of solvent saturated soil on February 27, 1986. The contours of Figure 2 are derived from the measured thickness of solvent in individual wells. Because the MUTO-SKIMMER was not operating for a ten day period prior to the measurement, the contours approximate a static thickness of solvent saturated soil.

On January 24, 1986, five groundwater samples were collected and analyzed for volatile and base/neutral compounds. The complete chemical analysis results are enclosed for your review.

The foregoing is a condensed summary of activities for the month. Should further detail or any clarification be required, we shall respond promptly to your request.

Sincerely,

GEOENGINEERING INC.

Robert 6. Kunzel

Associate

RGK/avm Enclosures cc T. A. Schwartz, Esq. (2)

TABLE A
Solvent Thickness and Piezometric Elevations
on 04/29/86

Well No.		lc Surface	Measured Solvent (MW Thickness (ft)	Calculated Solvent Thickness in Soil
1	89.4	(1)	0.76	0.12
2	88.5	5 (1)	0.02	<0.01
3	88.4	(1)	0.95	0.15
4	88.8	3 (1)	0.01	<0.01
5	89.0	(1)	0.00	0.00
6	88.0	(2)	5.72	0.93
7	88.8	(2)	0.68	0.11
8 -	88.4	•	0.05	<0.01
9	.89.5		0.00	. 0.00
10	88.7	(2)	0.42	0.07
Drainage Channel	85.8		- · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·
River	MP #1 89.5 MP #2 88.6 MP #3 87.1		,	

⁽¹⁾ Depth to water measured inside the GEOMON Groundwater Sampler/Piezometer (inlet screen is below solvent level).

⁽²⁾ Calculated piezometric surface, assuming solvent S.G. = 0.87.



1152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330	REPORT DATE: February 19, 1986
•	LAB # 51520
SAMPLE SOURCE: GEO ENGINEERING - MONITO	RING WELL # 5
SAMPLE DATE: January 24, 1986	TAKEN BY: K. VanOrden AT LAB DATE: 1/24/86
Applicate	
<u>Analysis</u>	Results_
BUTYL BENZENE	····ND
CUMENE	
DECANE	1
MESITYLENE (1,3.5 TRIMETHYLBENZENE)	
STYRENE	ND.
	ND
Nothing Detected at a sensitivity of	f <u>l ug/l(ppb)</u>
LT=Less than ND=Nothing Detected	
SURROGATE RECOVERIES:	
BFB - 85% d ₈ toluene - 86%	INDUSTRIAL CORROSION MANAGEMENT, INC.
•	Plestrast Line
RSL:dlh encl.	Richard S. Levine President
i .	



REPORT DATE: February 19, 1986

LAB # 51520

VOLATILE ORGANICS BY PURGE AND TRAP GAS CHROMATOGRAPHY

XYLENE

CLIENT: GEO ENGINEERING	SAMPLE SOURCE: Monitoring Well #5	
SAMPLE DATE: January 24, 1986	TAKEN BY: K. VanOrden AT LAB DATE: January 24, 1986	
	ND	ND
CHLOROFORM	ND 1,1,2,2-TETRACHLOROETHANE PCE (TETRACHLOROETHYLENE) ND HEPTANE* TOLUENE* TOLUENE* ND CHLOROBENZENE CHLOROBENZEN	ND ND ND ND ND ND ND
Unknown peaks detected (Reter	ntion time, estimated amount)	

LT=Less Than, GT=Greater Than, ND=Not Detected. *Compounds elute together. Could be either material

**Tetrahydrofuran & Phosgene also elute at this point.
Numerical results are calculated for 1,1-Dichloroethane

NOTE: Compound indentification is based upon retention time matches with specific known standards. Confirmatory analysis using GC/MS is required to positively identify any materials and/or amounts detected.

INDUSTRIAL COPROSION MANAGEMENT, INC.

Richard S. Levine

President

RSL:



1152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330	REPORT DATE: February 19, 1986
•	LAB #_ 51519
SAMPLE SOURCE: GEO ENGINEERING - MONITO	RING WELL # 4
SAMPLE DATE: January 24, 1986	TAKEN BY: K. VanOrden AT LAB DATE: 1/24/86
-	
Analysis	Results
BUTYL BENZENE	· · · ND
CUMENE	i
DECANE	· · · <u>ND</u>
MESITYLENE (1,3.5 TRIMETHYLBENZENE)	ND
STYRENE	··· ND
Nothing Detected at a sensitivity of	f 1 ug/1(ppb).
LT=Less than ND=Nothing Detected	
SURROGATE RECOVERIES:	
d _a toluene - 86% BFB - 66%	INDUSTRIAL CORROSION MANAGEMENT, INC.
	Metras & Lynnis
RSL:dlh encl.	Richard S. Levine President



NJDEP Certified Drinking Laboratory ID# 14116	Water/Wastewater
DEDODE -	

LAB #___51519_

VOLATILE ORGANICS BY PURGE AND TRAP GAS CHROMATOGRAPHY

CLIENT: GEO ENGINEERING XYLENE SAMPLE DATE: January 24. 1986 TAKEN BY: Ken VanOrden SAMPLE SOURCE: Monitoring Well #4

January 24, 1986	TAVEN		- Monitoring Was a	
		Ken Vanc	Orden AT LAB DATE.	
CUI ODOLUM	Compounds detected	·	per billion(micrograms/liter)	
CHLOROMETHANEBROMOMETHANE	- accepted	in parts	per billion (migran)	
BROMOMETHANE		ND	·——···································	
DICHLORODIFILIODOVERS			1,2-DICHLOROPPODANT	
VINYL CHLORIDE		ND	1,2-DICHLOROPROPANE	
CHLOROETHANE		ND	V-1) J-DICHI DPOPPOPPUP (W	<u>ND</u>
METHYLENE CHIODIDE		ND_	*VE(IKIUHLOROFTUVI Even	ND_
ACETONE		110	[*) *) 4 T K I CHT OP OPTIMATE .	
TRICHLOROFTHOPOWERS		ND	DIBROMOCHLOPOMETUALIS	ND
1, 1-DICHLOROFTUNG		ND	DENZENE	ND
1,1-DICHLOROETHANE** t-1,2-DICHLOROETHYLENE		ND	DIISOPROPYL ETHER	ND
t-1, 2-DICHI ODORTHINE		ND	2-CHI.OPOFTUV	ND
t-1,2-DICHLOROETHYLENE		ND	2-CHLOROETHYLVINYL ETHER	ND
CHLOROFORM		ND	HEXANE	ND ND
FREON 113		ND	BROMOFORM1,1,2,2-TETRACHLOROETHANF	ND ND
1,2-DICHLOROETHANE		ND	1,1,2,2-TETRACHLOROETHANE	ND
I I TRYOUTE ETHER		ND	PCE(TETRACHLOROETHYLENE)	ND
t-BUTYL METHYL ETHER		ND .	HEPTANE* TOLUENE* CHLOROBENZENE	ND ND
CARBON TETRACHLORIDEBROMODICHLOROMETHANE		ND	CUI ODODOWA	
		ND	CHLOROBENZENEETHYLBENZENE	<u>ND</u>
Surrogate Recovery - 103%		ND	ETHYLBENZENE	<u>ND</u>
- 103%			M-XYLENE	ND ND
X For the above listed volat Unknown peaks detected (Ret.			M-XYLENE	ND ND
Unknown peaks detected voiat	ile pollutants, nort	itno des	r-xylene	ND_
Unknown peaks detected (Ret	ention time, estimat	ed a-	cted at 1 ug/1(nph)	ND
LT=Less Than, GT=Greater Th		eu amoun	t)	
Tagrace m				

LT=Less Than, GT=Greater Than, ND=Not Detected. *Compounds elute together. Could be either material

**Tetrahydrofuran & Phosgene also elute at this point.

NOTE: Compound indentification is based upon retention time matches with specific known standards. Confirmatory analysis Numerical results are calculated for 1,1-Dichloroethane on

INDUSTRIAL CORPOSION MANAGEMENT, INC.

President

RSL: dlh



1152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330	REPORT DATE: February 19, 1986	
•	LAB #51518	
SAMPLE SOURCE: GEO ENGINEERING - MONITO	RING WELL # 3	
SAMPLE DATE: <u>January 24, 1986</u>	TAKEN BY: K. VanOrden AT LAB DATE: 1/24/	86
	, -	
Analysis	<u>Results</u>	
BUTYL BENZENE	•••• ND	
CUMENE		
DECANE		
MESITYLENE (1,3.5 TRIMETHYLBENZENE)		
STYRENE	<u>50_ug</u> /1(ppb)	
other benzene derivatives - 22 ug/1(pph)		
Nothing Detected at a sensitivity o	f	
LT=Less than ND=Nothing Detected		
SURROGATE RECOVERIES:		
de toluene - 88% BFB - 86%	INDUSTRIAL CORROSION MANAGEMENT, INC.	
•	Miles & Lyrine	
RSL:dlh enci.	Richard S. Levine President	



JDEP	Certi	lfied	Drinking	Water/Wastewater
abora	tory	ID#	14116	

LAB # 51518

VOLATILE ORGANICS BY PURGE AND TRAP GAS CHROMATOGRAPHY

XYLENE

CLIENT: GEO ENGINEERING	SAMPLE SOURCE: Monitoring Well #3
SAMPLE DATE: January 24, 1986 TAKEN BY: Ke	
	in parts per billion(micrograms/liter)
CHLOROMETHANE	ND 1,2-DICHLOROPROPANEND
BROMOMETHANE	ND c-1,3-DICHLOROPROPENE*
DICHLORODIFLUOROMETHANE	ND t-1,3-DICHLOROPROPENE*
VINYL CHLORIDE	ND TCE(TRIGHLOROETHYLENE) ND
CHLOROETHANE	ND [1,1,2-TRICHLOROETHANE*
METHYLENE CHLORIDE	ND DIBROMOCHLOROMETHANE*
TRICHLOROFLUOROMETHANE	ND BENZENEND
1,1-DICHLOROETHYLENE	ND DIISOPROPYL ETHERND
1,1-DICHLOROETHANE**	ND 2-CHLOROETHYLVINYL ETHERND
t-1,2-DICHLOROETHYLENE	ND HEXANEND
CHLOROFORM	ND BROMOFORMND
FREON 113	ND 1,1,2,2-TETRACHLOROETHANE ND
1,2-DICHLOROETHANE	ND PCE(TETRACHLOROETHYLENE) ND
t-BUTYL METHYL ETHER	ND (HEPTANE*
1,1,1-TRICHLOROETHANE	ND_ LOUGHRE
CARBON TETRACHLORIDE	
BROMODICHLOROMETHANE	ND ETHYLBENZENE
	ND M-XYLENE
Surrogate Recovery - 89%	P-XYLENE 12
For the above listed volatile pollutants, no	thing detected at
Unknown peaks detected (Retention time, estimate)	ated amount)
I.Tallece Than CT-Croster Then MD-Non Day 1	

LT=Less Than, GT=Greater Than, ND=Not Detected. *Compounds elute together. Could be either material

**Tetrahydrofuran & Phosgene also elute at this point.
Numerical results are calculated for 1,1-Dichloroethane or

NOTE: Compound indentification is based upon retention time matches with specific known standards. Confirmatory analysis using GC/MS is required to positively identify any materials and/or amounts detected.

INDUSTRIAL COPROSSON MANAGEMENT, INC.

Richard S Levine

President

RSL: dlh



SAMPLE SOURCE: GEO ENGINEERING - MONITORING WELL # 2 SAMPLE DATE: January 24, 1986 TAKEN BY: Ken VanOrden AT LAB DATE: 1/24/86 Analysis Results ND CUMENE. ND DECANE ND MESITYLENE (1,3.5 TRIMETHYLBENZENE) ND STYRENE. ND Nothing Detected at a sensitivity of 1 ug/1(ppb) LT=Less than ND=Nothing Detected SURROGATE RECOVERIES: Analysis INDUSTRIAL CORROSION MANAGEMENT, INC. BEB - 98Z RSL: 41h President Analysis All Corrosion Management President Analysis All Corrosion President Analysis An	1152 ROUTE 10. RANDOLPH, NEW JERSEY 07869 201-584-0330	REPORT DATE: February 19, 1986
Analysis Results BUTYL BENZENE CUMENE	•	LAB #51517
Analysis BUTYL BENZENE CUMENE	SAMPLE SOURCE: GEO ENGINEERING - MONITORI	NG WELL # 2
BUTYL BENZENE CUMENE	January 24, 1986 T	AKEN BY: Ken VanOrden AT LAB DATE: 1/24/86
BUTYL BENZENE	<u>Analysis</u>	
DECANE	•	Results
MESITYLENE (1,3.5 TRIMETHYLBENZENE) ND STYRENE	CUMENE	· ND
STYRENE	DECANE	· ND
Nothing Detected at a sensitivity of 1 ug/1(ppb) LT=Less than ND=Nothing Detected SURROGATE RECOVERIES: do toluene - 867 BFB - 987 INDUSTRIAL CORROSION MANAGEMENT, INC. RICHARD S. Levine RSL:dlh	TRIMETHYLBENZENE)	
LT=Less than ND=Nothing Detected SURROGATE RECOVERIES: d _B toluene - 86% BFB - 98% RSL:dlh RIChard S. Levine		
INDUSTRIAL CORROSION MANAGEMENT, INC. SEB - 98% RSL: dlh RSL: dlh	LT=Less than	
RSL: dlh Richard S. Levine		INDUSTRIAL CORROSION MANAGEMENT, INC.
	RSL: dlh R	Milead June Ichard S. Levine



NJDEP Certified Drinki Laboratory ID# 14116	ng Water/Wastewater
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LAB #___51517_

VOLATILE ORGANICS BY PURGE AND TRAP GAS CHROMATOGRAPHY

XYLENE

LIENT: GEO ENGINEERING		SAMPLE SOURCE: Monitoring Well #2	
AMPLE DATE: January 24, 1986	TAKEN BY:	Ken VanOrden AT LAB DATE: 100000000	
Com	pounds detected	d in parts per hillian/missage /s.	
HLOROMETHANE			
COUNTRIBUTE		1)2-DICHLOROPROPANE	
CHLORODIFLUOROMETHANE		[C-1, 3-DICHLOROPROPENE*	ND
LNIL CHLORIDE		L-1, 3-DICHLOROPROPENE*	ND
ILOROETHANE		TCE(TRICHLOROETHYLENE)	
THYLENE CHLORIDE		1,1,2-TRICHLOROETHANE*	<u>ND</u>
LIUNE		DIBROMOCHLOROMETHANE*	ND
CICHLOROFLUOROMETHANE		DENZENE	
1-DICHLOROETHYLENE		NDDIISOPROPYL ETHER	<u>ND</u>
T-DICHTOKOETHANE**		Z-CHLOROETHYLVINYL ETHER	<u>ND</u>
1,2-DICHLOROETHYLENE	***	AD REARING SECTION OF THE PROPERTY OF THE PROP	ND.
LUKUFURM		ND BROMOFORM	ND.
EON 113		ND 1,1,2,2-TETRACHLOROETHANE	ND.
2-DICHLOROETHANE		- ND FCE(TETRACHLOROETHYLENE)	ND.
BUTYL METHYL ETHER		ND_ MEFIANE^	ND
1,1-TRICHLOROETHANE		TOLUENE*	ND
RBON TETRACHLORIDE		CHLUKUBENZENE	
OMODICHLOROMETHANE		ND EIHILBENZENE	ND
rrogate Recovery - 93%	-	ND M-XYLENE	ND
	•	O-XYLENE	ND
For the above listed volatile	nollutonto	P-XYLENE nothing detected at l'ug/1(ppb).	ND
Unknown peaks detected (Retent	don time seed	nothing detected at 1 ug/1(ppb).	
	.ton time, estim	imated amount)	
Jaco Theo CT-C			
Less Than, GT=Greater Than, ND=N	lot Detected.	**Tetrahydrofuran & Phonocon at a f	
mpounds elute together. Could b	e either materi	**Tetrahydrofuran & Phosgene also elute at this po Numerical results are calculated for 1,1-Dichlor	int,
E: Compound indentification is h	aged upon make	numerical results are calculated for 1,1-Dichlorention time matches with specific known standards. Confirmatory as ify any materials and/or amounts detected	oeth

INDUSTRIAL CORROSION MANAGEMENT, INC.

Bichard S. Levine

President

RSL: d1h



INCORPORATED 1152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330	REPORT DATE: February 19, 1986		
	LAB #51516		
SAMPLE SOURCE: GEO ENGINEERING - MONITORING	G WELL # 1		
24424 5 5 5 5 5 5	KEN BY: K. VanOrden AT LAB DATE: 1/24/86		
	<u>.</u>		
Analysis	Results_		
BUTYL BENZENE	•ND		
CUMENE	• ND		
DECANE			
MESITYLENE (1,3.5 TRIMETHYLBENZENE)			
STYRENE	** **** ****		
Nothing Detected at a sensitivity of	2,000 ug/1(ppb).		
LT=Less than ND=Nothing Detected			
SURROGATE RECOVERIES:	,		
toluene - 139% - 127%	INDUSTRIAL CORROSION MANAGEMENT, INC.		
	Melies & Lime		
RSL:dlh	Richard S. Levine President		
1	COLUCIE		



NJDEP	Certi	fied	Drinking	Water/Wastewater
Labora	tory	ID#	14116	, = = = = = = = = = = = = = = = = = = =

LAB #___51516

VOLATILE ORGANICS BY PURGE AND TRAP GAS CHROMATOGRAPHY

XYLENE

CLIENT: GEO ENGINEERING	SAMPLE SOURCE: Monitoring Well #1	
SAMPLE DATE: January 24, 1986 TAKEN BY:	Kenneth VanOrden AT LAB DATE: January 24, 1986	
Compounds detected	ed in parts per billion(micrograms/liter)	
CHLOROMETHANE	ND 1,2-DICHLOROPROPANE	
BROMOMETHANE	ND c-13-DICULODODDODENE+	ND
DICHLORODIFLUOROMETHANE	- ND t-1 3-DICUI OPODPOPENE	ND
VINYL CHLORIDE	- ND TCF(TRICUI ODOFTUVI ENEN	
CHLOROETHANE	TO ND 1.1.2-TRICHLOROETHANE*	ND
METHYLENE CHLORIDE	- ND INTERPONDENT OPPOSET AND	ND
TRICHLOROFLUOROMETHANE		ND
1, 1-DICHLOROETHYLENE		ND
1,1-DICHLOROETHANE**	- ND 2-CHLOROETHYLVINYL ETHER	ND
t-1,2-DICHLOROETHYLENE		ND
CHLOROFORM		ND
FREON 113		ND-
1,2-DICHLOROETHANE		ND
t-BUTYL METHYL ETHER	- ND HEPTANE* - ND TOLUENE*	130
1,-1,-1-TRICHLOROETHANE	- ND- CHLOROBENZENE	
CARBON TETRACHLORIDE	- ND ETHYLRENZENE	-ND
BROMODICHLOROMETHANE	- ND M-XYLENE	3,000
Surrogate Recovery - 95%	O-XYLENE	59,000
	D_VUI ENE	43,000
For the above listed volatile pollutants,	nothing detected at	
Unknown peaks detected (Retention time, es	timated amount)	

LT=Less Than, GT=Greater Than, ND=Not Detected.

*Compounds elute together. Could be either material

**Tetrahydrofuran & Phosgene also elute at this point.
Numerical results are calculated for 1,1-Dichloroethane or

NOTE: Compound indentification is based upon retention time matches with specific known standards. Confirmatory analysis using GC/MS is required to positively identify any materials and/or amounts detected.

INDUSTRIAL CORROSION MANAGEMENT, INC.

Richard S. Levine

President

RSL: dlh